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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

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GB/T 8655-2019

Replacing GB/T 8655-2006, GB/T 12824-2002

Styrene-butadiene rubber (SBR) 1500, 1502

苯乙烯-丁二烯橡胶(SBR)1500、1502

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Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard replaces GB/T 8655-2006 “Styrene-butadiene rubber (SBR) 1500” and GB/T 12824-2002 “Rubber, styrene-butadiene (SBR) 1502”.

Compared with GB/T 8655-2006, in addition to editorial modifications, main technical changes as follows:

- modified application scope (see Clause 1 of this Edition, Clause 1 of GB/T 8655-2006);
- about normative references, this Standard made adjustment according to current latest version; see Clause 2 “Normative references” for adjustment as follows:
 - modified all normative references to current latest version;
 - deleted GB/T 6737-1997;
 - added GB/T 24131.1-2018, GB/T 24797.1-2009, GB/T 25268-2010;
 - modified GB/T 19188 from date reference to non-date reference;
- modified technical requirements (see Table 1 of this Edition, Table 1 of GB/T 8655-2006);
- modified inspection rules (see Clause 4 of this Edition, Clause 4 of GB/T 8655-2006);
- added marks and accompanying documents (see Clause 5 of this Edition);
- modified packaging, marks, transport and storage (see Clause 6 of this Edition, Clause 5 of GB/T 8655-2006).

Compared with GB/T 12824-2002, in addition to editorial modifications, main technical changes in this Standard are as follows:

- modified applicable scope (see Clause 1 of this Edition, Clause 1 of GB/T 12824-2002);
- about normative references, this Standard made adjustment according to current latest version; see Clause 2 “Normative references” for adjustment as follows:
 - modified all normative references to current latest version;

Styrene-butadiene rubber (SBR) 1500, 1502

1 Scope

This Standard specifies requirements and test methods, inspection rules, marks, packaging, transport and storage for styrene-butadiene rubber (SBR) 1500,1502 [i.e., styrene-butadiene rubber, hereinafter referred to as styrene-butadiene rubber (SBR) 1500, 1502].

This Standard is applicable to styrene-butadiene rubber (SBR) 1500 and styrene-butadiene rubber (SBR) 1502 that take butadiene and styrene as monomers, compound soap of potassium rosin acid soap and fatty acid soap, or disproportionated potassium rosin soap as emulsifier, that is produced through low-temperature emulsion polymerization, where styrene-butadiene rubber (SBR) 1500 adds color-changing anti-aging agent and styrene-butadiene rubber (SBR) 1502 adds color non-discoloring anti-aging agent.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 528-2009, *Rubber, vulcanized or thermoplastic - Determination of tensile stress-strain properties*

GB/T 1232.1-2016, *Rubber, unvulcanized - Determinations using a shearing-disc viscometer - Part 1: Determination of Mooney viscosity*

GB/T 4498.1-2013, *Rubber - Determination of Ash - Part 1: Muffle Furnace Method*

GB/T 8656-2018, *Emulsion-and solution-polymerized styrene-butadiene rubber (SBR) - Evaluation procedures*

GB/T 8657-2014, *Styrene-butadiene rubber, raw - Determination of soap and organic-acid content*

GB/T 8658-1998, *Rubber, raw styrene-butadiene, emulsion - Polymerized - Determination of bound styrene content-Refractive index method*

GB/T 19187-2016, *Sampling procedures for inspection of raw synthetic*

All items in Table 1 are type inspection items. Under normal circumstances, mixed-refining rubber Mooney viscosity, 300% fixed stress, tensile strength, elongation at break and vulcanization characteristics are tested at least once a week. Ash content is subjected to type inspection at least once a month.

Exit-factory inspection items for styrene-butadiene rubber (SBR) 1500, 1502 are volatile content, organic acid, soap, combined styrene, raw rubber Mooney viscosity.

4.3 Batching rules and sampling scheme

4.3.1 Batching rules

Styrene-butadiene rubber (SBR) 1500, 1502 are batched by products of same production line, of same raw material, of same designation produced by same technique. Production plant may also batch according to a certain production cycle. Each batch does not exceed 300t.

Styrene-butadiene rubber (SBR) 1500, 1502 are inspected and accepted in batches.

4.3.2 Sampling scheme

Conduct sampling according to GB/T 19187-2016. Production inspection can be sampled online.

4.4 Rules for determination

Styrene-butadiene rubber (SBR) 1500, 1502 shall be subjected to exit-factory inspection that is performed by quality inspection department according to test method specified in this Standard, according to mixed laboratory sample specified in 3.4 of GB/T 19187-2016. Make determination on product quality according to inspection results and technical requirements in Table 1.

When any item in exit-factory inspection results fails to meet technical requirements specified in this Standard, it shall take remained sample for re-inspection for failed item. If re-inspection results do not meet requirements, it shall re-sample from double packaging units for re-inspection. Use re-inspection results as basis for quality determination of this batch of products.

5 Marks and accompanying documents

5.1 On external packaging of styrene-butadiene rubber (SBR) 1500, 1502, there shall be obvious mark. Mark contents may include product name, designation, name of production plant, plant address, registered trademark, batch number (production date), net content.

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